

AMENDMENTS TO THE CLAIMS:

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1. (Currently Amended) An image pickup device comprising:
an image sensor having rectangular light receiving portions arranged in a matrix,
and microlenses disposed in correspondence with said light receiving portions, said light
receiving portions and said microlenses being formed integrally with each other; and
an image input optical system for forming an image on said image sensor, said
image input optical system including a diaphragm; and
wherein the diaphragm ~~whose~~ has a shape in a horizontal direction that coincides
with a shape of said light receiving portions of said image sensor.

2. (Original) An image pickup device as claimed in claim 1, wherein said
diaphragm has an oval shape that is circular in a vertical direction and is linear in the
horizontal direction.

3 (Original) An image pickup device as claimed in claim 1, wherein said
image sensor has charge transferring portions adjoining said light receiving portions.

4. (Currently Amended) An image pickup device comprising:
an image sensor having rectangular light receiving portions arranged in a matrix,
and microlenses disposed in correspondence with said light receiving portions, said light
receiving portions and said microlenses being formed integrally with each other; and
an image input optical system for forming an image on said image sensor, said
image input optical system including a diaphragm and a light restricting plate; and
wherein the light restricting plate ~~whose~~ has a shape in a horizontal direction that
coincides with a shape of said light receiving portions of said image sensor, said light
restricting plate being provided separately from said diaphragm.

5. (Original) An image pickup device as claimed in claim 4, wherein said
light restricting plate is disposed on one side in the horizontal direction.

6. (Original) An image pickup device as claimed in claim 4, wherein said light restricting plate has an oval shape that is circular in a vertical direction and is linear in the horizontal direction.

7. (Original) An image pickup device as claimed in claim 4, wherein said image sensor has charge transferring portions adjoining said light receiving portions.

8. (Original) An image input optical system for forming an image on an image sensor which has rectangular light receiving portions arranged in a matrix, and microlenses disposed in correspondence with said light receiving portions, said light receiving portions and said microlenses being formed integrally with each other, comprising:

at least one lens element; and

a diaphragm whose shape in a horizontal direction coincides with a shape of said light receiving portions of said image sensor.

9. (Original) An image input optical system as claimed in claim 8, wherein said diaphragm has an oval shape that is circular in a vertical direction and is linear in the horizontal direction.

10. (Original) An image input optical system as claimed in claim 8, wherein said image sensor has charge transferring portions adjoining said light receiving portions.

11. (Original) An image input optical system for forming an image on an image sensor which has rectangular light receiving portions arranged in a matrix, and microlenses disposed in correspondence with said light receiving portions, said light receiving portions and said microlenses being formed integrally with each other, comprising:

at least one lens element;

a diaphragm; and

a light restricting plate whose shape in a horizontal direction coincides with a shape of said light receiving portions of said image sensor, said light restricting plate being provided separately from said diaphragm.

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12. (Original) An image input optical system as claimed in claim 11, wherein said light restricting plate is disposed on one side in the horizontal direction.

13. (Original) An image input optical system as claimed in claim 11, wherein said light restricting plate has an oval shape that is circular in a vertical direction and is linear in the horizontal direction.

14. (Original) An image input optical system as claimed in claim 11, wherein said image sensor has charge transferring portions adjoining said light receiving portions.
